

Methods in Molecular Biology

Volume 15

PCR PROTOCOLS

Current Methods and Applications

Edited by

Bruce A. White



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PCR Protocols Bruce A. White,2008-02-02 PCR has been successfully utilized in every facet of basic clinical and applied studies of the life sciences and the impact that PCR has had on life science research is already staggering. Comitant with the essentially universal use of PCR has been the creative and explosive development of a wide range of PCR based techniques and applications. These increasingly numerous protocols have each had the general effect of facilitating and accelerating research. Because PCR technology is relatively easy and inexpensive PCR applications are well within the reach of every research lab. In this sense PCR has become the equalizer between small and big labs since its use makes certain projects especially those related to molecular cloning now far more feasible for the small lab with a modest budget. This new volume on PCR Protocols does not attempt the impossible task of representing all PCR based protocols. Rather it presents a range of protocols both analytical and preparative that provide a solid base of knowledge on the use of PCR in many common research problems. The first six chapters provide some basic information on how to get started. Chapters 7-19 represent primarily analytical uses of PCR both for simple DNA and RNA detection as well as for more complex analyses of nucleic acid e.g. DNA footprinting, RNA splice site localization. The remaining chapters represent synthetic or preparative uses of PCR.

PCR Protocols John M. S. Bartlett, David Stirling, 2008-02-03 In this new edition the editors have thoroughly updated and dramatically expanded the number of protocols to take advantage of the newest technologies used in all branches of research and clinical medicine today. These proven methods include real time PCR, SNP analysis, nested PCR, direct PCR and long range PCR. Among the highlights are chapters on genome profiling by SAGE, differential display and chip technologies, the amplification of whole genome DNA by random degenerate oligonucleotide PCR and the refinement of PCR methods for the analysis of fragmented DNA from fixed tissues. Each fully tested protocol is described in step by step detail by an established expert in the field and includes a background introduction outlining the principle behind the technique, equipment and reagent lists, tips on trouble shooting and avoiding known pitfalls and where needed a discussion of the interpretation and use of results.

PCR Protocols Michael A. Innis, David H. Gelfand, John J. Sninsky, Thomas J. White, 2012-12-02 The correct procedures you need for frustration free PCR methods and applications are contained in this complete step by step, clearly written, inexpensive manual. Avoid contamination with specific instructions on setting up your lab. Avoid cumbersome molecular biological techniques. Discover new applications.

[PCR Methods and Applications](#) , 1995 [Computer Analysis of Sequence Data Part II](#) Annette M. Griffin, Hugh G. Griffin, 2008-02-02 DNA sequencing has become increasingly efficient over the years resulting in an enormous increase in the amount of data generated. In recent years the focus of sequencing has shifted from being the endpoint of a project to being a starting point. This is especially true for such major initiatives as the human genome project where vast tracts of DNA of unknown function are sequenced. This sheer volume of available data makes advanced computer methods essential to analysis and a familiarity with computers and sequence analysis software a

vital requirement for the researcher involved with DNA sequencing Even for nonsequencers a familiarity with sequence analysis software can be important For instance gene sequences already present in the databases can be extremely useful in the design of cloning and genetic manipulation experiments This two part work on Computer Analysis of Sequence Data is designed to be a practical aid to the researcher who uses computers for the acquisition storage or analysis of nucleic acid and or protein sequences Each chapter is written such that a competent scientist with basic computer literacy can carry out the procedure successfully at the first attempt by simply following the detailed practical instructions that have been described by the author A Notes section which is included at the end of each chapter provides advice on overcoming the common problems and pitfalls sometimes encountered by users of the sequence analysis software

PCR Lucília Domingues,2023-08-22 This second volume focuses on PCR methods and PCR application specificities to the biotechnology and bioengineering field New and updated chapters detail real time PCR protocols synthetic biology applications pathogen detection microfluidics digital multiplex detection recent advances Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls

Authoritative and cutting edge PCR Methods and Protocols Second Edition aims to be a useful and practical guide to new researchers and experts looking to expand their knowledge

Basic Methods in Molecular Biology Leonard G. Davis,W. Michael Kuehl,James F. Battey,1994 This edition emphasizes the decisions that need to be made to select one procedure over another in the everyday workings of a molecular biology laboratory Trouble shooting problems that may emerge when performing such methods are included and concise instructions are provided

Ovarian Cancer John M. S. Bartlett,2008-02-02 If there is one aspect of current cancer research that represents a major challenge in both novice and experienced researchers it is the rapid advance in our understanding of the disease Researchers can be required to switch from analysis of gene expression to kinetics of protein activation from genetic studies to the analysis of protein function Cancers are highly complex disease systems and researchers aiming to understand the functioning of cancer systems require access to a wide range of laboratory techniques from a broad range of research disciplines Increasingly however published methods are incomplete or refer back to a series of previous publications each containing only a small part of the complete protocol The aim of Ovarian Cancer Methods and Protocols is to provide for ovarian cancer researchers in the first instance a laboratory handbook that will facilitate research into cancer systems by providing a series of expert protocols with proven efficacy across a broad range of technical expertise Thus there are sections on tumor genetics and cellular signal transduction as well as sections on apoptosis and RNA analysis The value of Ovarian Cancer Methods and Protocols to the ovarian cancer researcher will I trust be considerably enhanced by 1 the provision of a series of overviews relating to the biology diagnosis and treatment of this important neoplasm and 2 the provision of a series of technical overviews introducing

each part that provides an expert review of the applications and pitfalls of the various techniques included **Molecular Biology in Crop Protection** George Marshall,Dale Walters,1994-08-31 Focuses on the use of techniques in plant molecular biology for crop protection with coverage of terminology and techniques available the application of these techniques to problems genetic engineering of resistance to diseases herbicides pests and commercial and legislative aspects ***Route Maps in Gene Technology*** Mark Walker,Ralph Rapley,2009-07-17 Route Maps in Gene Technology is an exciting new introductory textbook for first year undergraduates in molecular biology and molecular genetics The subject is broken down into 140 to 150 key concepts or topics each of which is dealt with in one doublepaged spread These range from basic introductory principles to applied topics at the cutting edge of research A control strip along the top of the page shows the student which pages need to have been read beforehand and which topics may be followed afterward In addition at the front of the book are a selection of routes which the student or teacher may choose in order to study a particular topic Because courses have become more modular and many students arrive at college with little or no biology background this approach enables teachers and students to structure a course of study to best suit their disparate exposure to biology An exciting new concept in textbook design allowing unparalleled flexibility on the part of the student and the teacher Covers the full range of modern molecular biology from basic principles to the latest applications Attractive clear and simple presentation with copious two colour illustrations

Biochemical and Organic Compounds for Research and Diagnostic Clinical Reagents Sigma Chemical Company,1995 **Molecular Genetics of Marine Mammals** Andrew E. Dizon,Susan J. Chivers,William F. Perrin,Society for Marine Mammalogy,1997 **Basic Laboratory Calculations for Biotechnology** Lisa A. Seidman,2021-12-28 To succeed in the lab it is crucial to be comfortable with the math calculations that are part of everyday work This accessible introduction to common laboratory techniques focuses on the basics helping even readers with good math skills to practice the most frequently encountered types of problems Basic Laboratory Calculations for Biotechnology Second Edition discusses very common laboratory problems all applied to real situations It explores multiple strategies for solving problems for a better understanding of the underlying math Primarily organized around laboratory applications the book begins with more general topics and moves into more specific biotechnology laboratory techniques at the end This book features hundreds of practice problems all with solutions and many with boxed complete explanations plus hundreds of story problems relating to real situations in the lab Additional features include Discusses common laboratory problems with all material applied to real situations Presents multiple strategies for solving problems help students to better understand the underlying math Provides hundreds of practice problems and their solutions Enables students to complete the material in a self paced course structure with little teacher assistance Includes hundreds of story problemsthat relate to real situations encountered in the laboratory **PCR Applications** Michael A. Innis,David H. Gelfand,John J. Sninsky,1999-05-11 PCR is the most powerful technique currently used in molecular biology It enables the scientist to

quickly replicate DNA and RNA on the benchtop From its discovery in the early 80 s PCR has blossomed into a method that enables everything from ready mutation of DNA RNA to speedy analysis of tens of thousands of nucleotide sequences daily PCR Applications examines the latest developments in this field It is the third book in the series building on the previous publications PCR Protocols and PCR Strategies The manual discusses techniques that focus on gene discovery genomics and DNA array technology which are contributing factors to the now occurring bioinformatics boom Key Features Focuses on gene discovery genomics and DNA array technology Covers quantitative PCR techniques including the use of standards and kinetic analysis includes statistical refinement of primer design parameters Illustrates techniques used in microscopic tissue samples such as single cell PCR whole cell PCR laser capture microdissection and in situ PCREntries provide information on Nomenclature Expression Sequence analysis Structure and function Electrophysiology Pharmacology Information retrieval

Handbook of Clinical Automation, Robotics, and Optimization Judith Welsh (R.N.),1996 This comprehensive landmark book describes the technology of the future in diagnostic medicine how to integrate it into the modern hospital and how to work with people to adapt change and plan for a smooth transition to a fully robotic laboratory Features an extensive section on point of care testing along with a modern perspective of how this will transform medicine Global experts in their fields have authored all chapters which include a unique one on machine vision and another with several plates that discusses the automation of a clinical laboratory in Japan Current Protocols in Molecular Biology Frederick M. Ausubel,1987

Comprehensive Natural Products Chemistry: DNA and aspects of molecular biology Derek H. R. Barton,Kōji Nakanishi,Otto Meth-Cohn,1999 Hardbound This volume is intended to cover the chemistry of one of the most widely studied and important natural products DNA Discussed in detail are physicochemical properties of the molecule itself as well as small molecule natural products that are known to interact with it Also included are methods to synthesize and manipulate DNA and modified analogues Twenty chapters are devoted to this overall topic The first five relate to the structure of DNA the first focuses on thermodynamics and kinetics of double helix formation the next two describe triple and tetra helical structures formed by DNA and the last two focus on methods for probing DNA structure specifically NMR methods and chemical probing methods respectively Chapters 6 12 focus on the chemistry of natural DNA and modified analogues The first of these addresses nonenzymatic methods for synthesizing DNA and the next chapter on methods for attachment of reporter groups t

The Journal of Neuroscience ,2002 Biochemicals and Reagents , PCR C. R. Newton,1995-08-24 PCR has become one of the most widely used techniques in molecular biology Many variants of the basic technology now exist This book provides a comprehensive database of information to guide the researcher in choosing the most appropriate procedures and reagents for specific applications of PCR The Essential Data series provides rapid access to the core data required by researchers on a daily basis in convenient pocket sized volumes

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